USER MANUAL

VERSION 1.0 November 2013

TeosWide 10D2E 10D2P
TeosWide 1007E 1007P

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Manual Version 1.0

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Safety

IMPORTANT SAFETY INSTRUCTIONS

1. To disconnect the machine from the electrical power supply, turn off the power switch and remove the power cord plug from the wall socket. The wall socket must be easily accessible and in close proximity to the machine.
2. Read these instructions carefully. Save these instructions for future reference.
3. Follow all warnings and instructions marked on the product.
4. Do not use this product near water.
5. Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
6. Slots and openings in the cabinet and the back or bottom are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register or in a built-in installation unless proper ventilation is provided.
7. This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
8. Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on the cord.
9. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

CE MARK

This device complies with the requirements of the EEC directive 2004/108/EC with regard to “Electromagnetic compatibility” and 2006/95/EC “Low Voltage Directive”.

FCC

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference.
(2) This device must accept any interference received, including interference that may cause undesired operation.

CAUTION ON LITHIUM BATTERIES

There is a danger of explosion if the battery is replaced incorrectly. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer’s instructions.

Battery Caution

Risk of explosion if battery is replaced by an incorrectly type. Dispose of used battery according to the local disposal instructions.

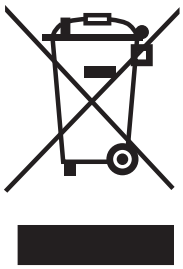
Safety Caution

Note: To comply with IEC60950-1 Clause 2.5 (limited power sources, L.P.S) related legislation, peripherals shall be 4.7.3.2 “Materials for fire enclosure” compliant.

4.7.3.2 Materials for fire enclosures
For MOVABLE EQUIPMENT having a total mass not exceeding 18kg.the material of a FIRE ENCLOSURE, in the thinnest significant wall thickness used, shall be of V-1 CLASS MATERIAL or shall pass the test of Clause A.2.
For MOVABLE EQUIPMENT having a total mass exceeding 18kg and for all STATIONARY EQUIPMENT, the material of a FIRE ENCLOSURE, in the thinnest significant wall thickness used, shall be of 5VB CLASS MATERIAL or shall pass the test of Clause A.1

LEGISLATION AND WEEE SYMBOL

2012/19/EU Waste Electrical and Electronic Equipment Directive on the treatment, collection, recycling and disposal of electric and electronic devices and their components.



The crossed dust bin symbol on the device means that it should not be disposed of with other household wastes at the end of its working life. Instead, the device should be taken to the waste collection centers for activation of the treatment, collection, recycling and disposal procedure.
To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract.

This product should not be mixed with other commercial wastes for disposal.

Revision History

Changes to the original user manual are listed below:

Revision	Description	Date
1.0	• Initial release	November 2013

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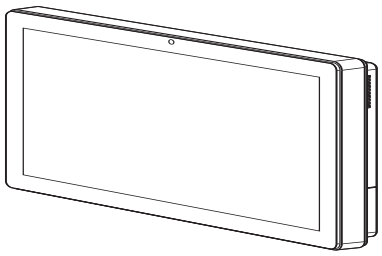
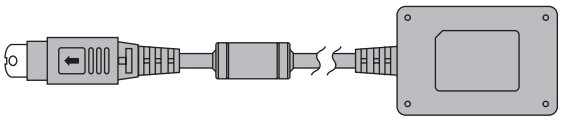
1. Packing List

1-1. Standard Items

a.


b.


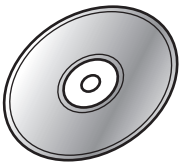
c.

d.

e.

f.

g.

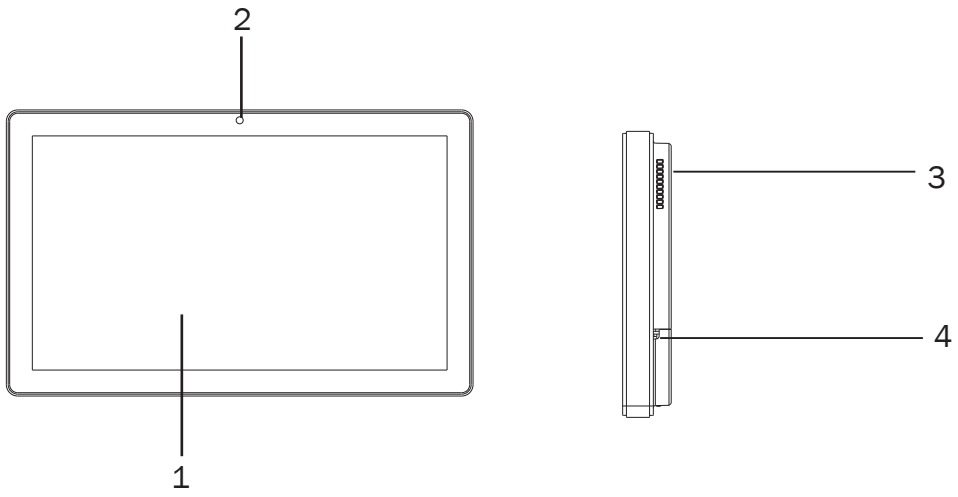
h.


a. System
b. Power adapter
c. Power cord
d. RJ45-DB9 cable (x4)
e. USB cable (x2)
f. Power extended cable
g. LAN extender cable
h. Manual CD

Note: Power cord will be supplied differently according to various region or country.

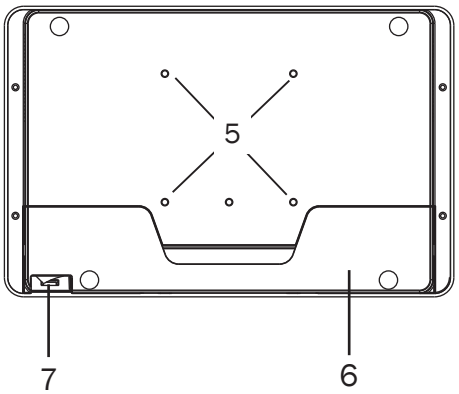
2. System View

2-1. Front & Side View



Item No.	Description
1	Touch screen
2	Built-in web cam
3	Ventilation
4	MSR cable hole

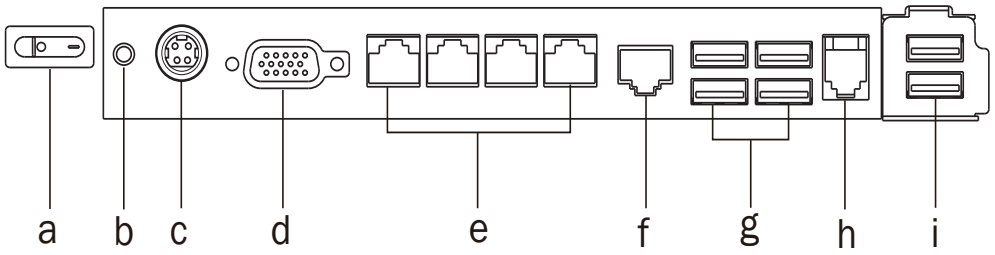
2-2. Rear View



Item No.	Description
5	VESA mounting holes
6	Cable cover
7	Power button

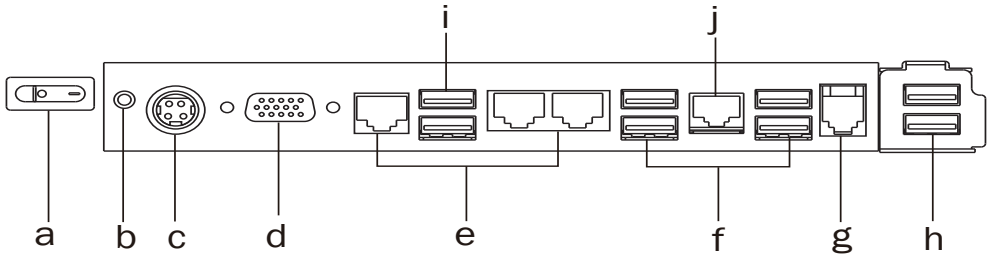
2-3. I/O View

C56 Motherboard



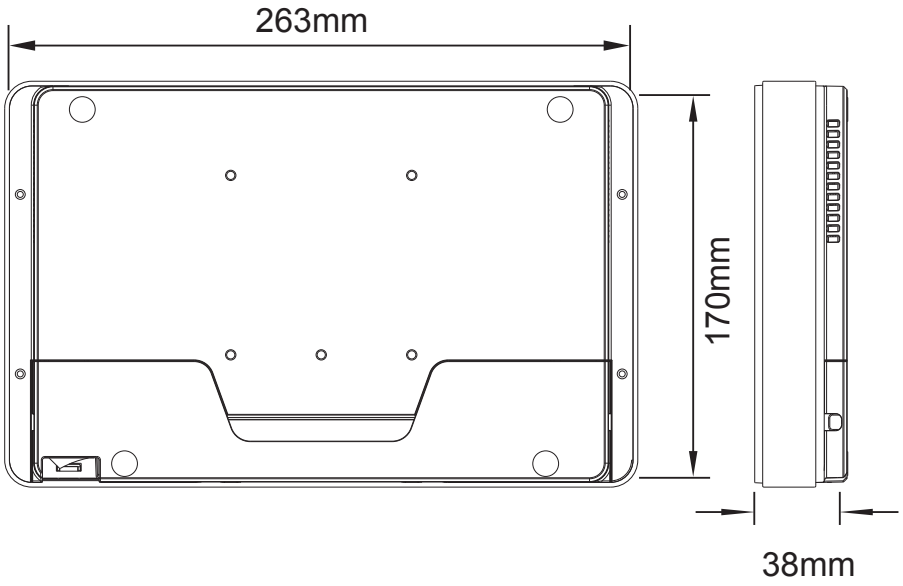
Item No.	Description
a	2nd power button
b	Power button
c	DC IN
d	VGA)
e	COM port 1, 2, 3, 4 (from left to right)
f	LAN
g	USBx4
h	Cash drawer
i	USB(x2) (only one USB if capacitive touch panel)

C76 Motherboard



Item No.	Description
a	2nd power button
b	Power button
c	DC IN
d	VGA
e	COM port 1, 2, 3 (from right to left)
f	USB 2.0 (x4) (two optional USB)
g	Cash drawer
h	USB (x2)
i	USB 3.0 (x2)
j	LAN

2-4. Dimensions

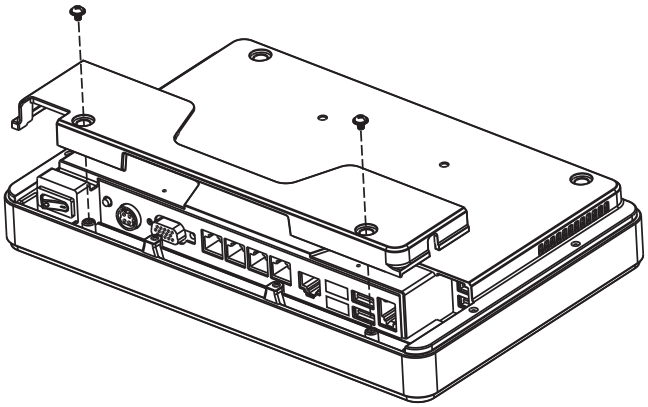


3. System Assembly

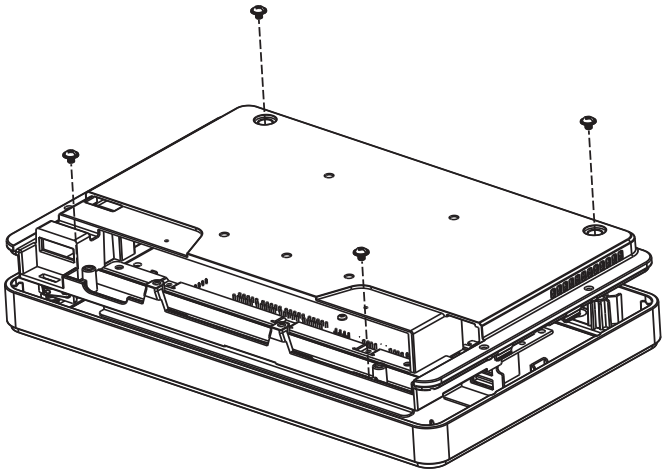
3-1. Open the Chassis Cover

The motherboard and RAM module can be replaced by opening the chassis cover, which is located on the back side of the system. Please follow the steps below to open the chassis cover.

1. Turn to the back side of the system and loosen the screws (x2) to release the cable cover first.



2. Loosen the screws (x4) to open the back cover of the system.

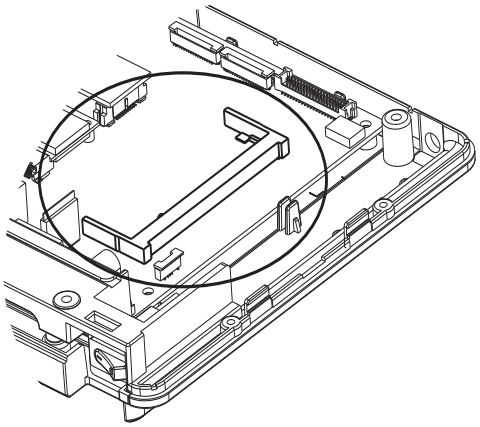


3-2. RAM Module Replacement

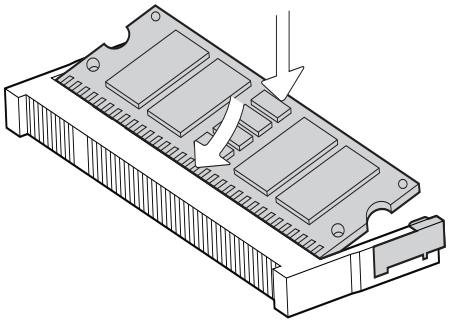
To remove and replace the RAM module, please open the chassis cover firstly as steps dscribed in chapter 3-1.

Removing a RAM module

1. Find the memory slot at the right side of the motherboard.

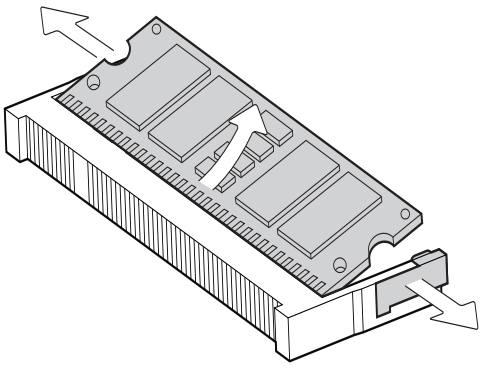


2. Flip the ejector clips outwards to remove the memory module from the memory slot.



Installing a RAM moudle

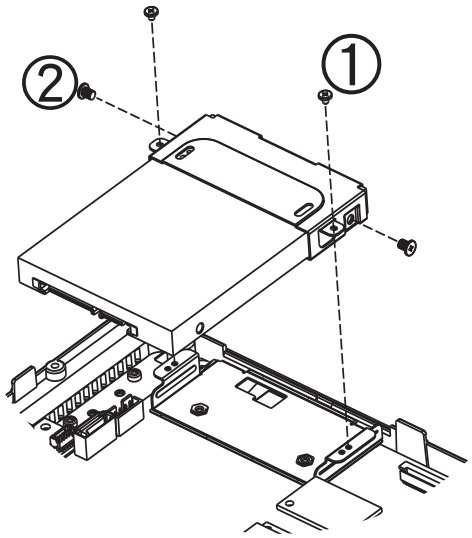
3. Slide the memory module into the memory slot and press down until the ejector clips snaps in place.



3-3. HDD Replacement

To remove and replace the HDD, please open the cable cover firstly as stpes dscribed in chapter 3-1-1.

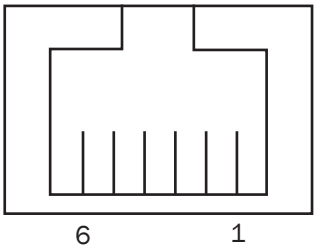
1. Loosen the screws(x2) to remove the HDD bracket from the system
2. The HDD is secured by the bracket, remove the screws(x2) to release the bracket and replace the HDD.



3-4. Cash Drawer Installation

You can install a cash drawer through the cash drawer port. Please verify the pin assignment before installation.

Cash Drawer Pin Assignment



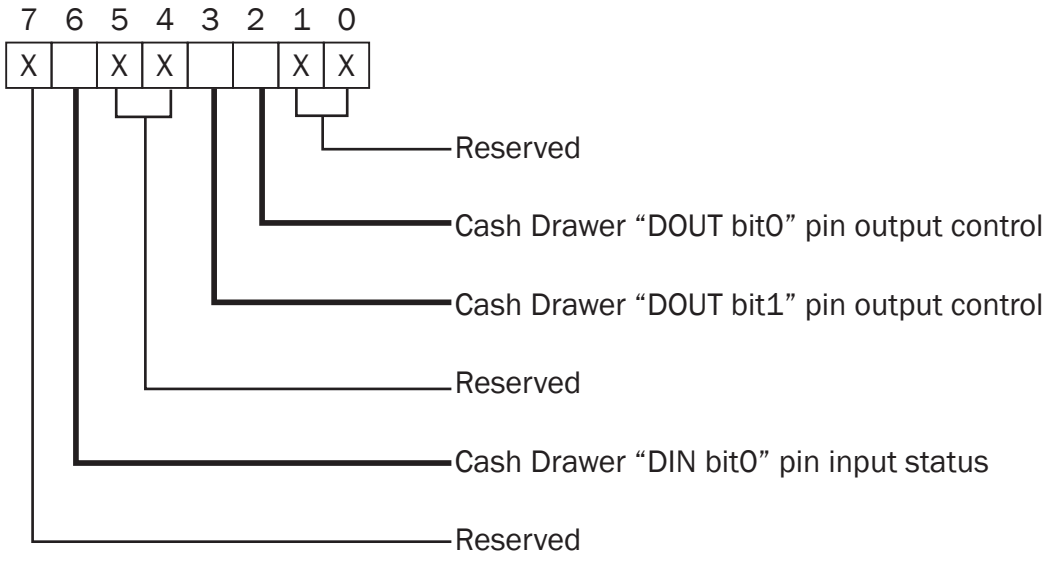
Pin	Signal
1	GND
2	DOUT bit0
3	DIN bit0
4	12V / 19V
5	DOUT bit1
6	GND

Cash Drawer Controller Register

The Cash Drawer Controller use one I/O addresses to control the Cash Drawer.

Register Location: 48Ch
Attribute: Read / Write
Size: 8bit

BIT	BIT7	BIT6	BIT5	BIT4	BIT3	BIT2	BIT1	BIT0
Attribute	Reserved	Read	Reserved		Write		Reserved	



Bit 7: Reserved
Bit 6: Cash Drawer “DIN bit0” pin input status.
= 1: the Cash Drawer closed or no Cash Drawer
= 0: the Cash Drawer opened
Bit 5: Reserved
Bit 4: Reserved
Bit 3: Cash Drawer “DOUT bit1” pin output control.
= 1: Opening the Cash Drawer
= 0: Allow close the Cash Drawer
Bit 2: Cash Drawer “DOUT bit0” pin output control.
= 1: Opening the Cash Drawer
= 0: Allow close the Cash Drawer
Bit 1: Reserved
Bit 0: Reserved

Note: Please follow the Cash Drawer control signal design to control the Cash Drawer.

Cash Drawer Control Command Example

Use Debug.EXE program under DOS or Windows98

Command	Cash Drawer
O 48C 04	Opening
O 48C 00	Allow to close
► Set the I/O address 48Ch bit2 =1 for opening Cash Drawer by “DOUT bit0” pin control. ► Set the I/O address 48Ch bit2 = 0 for allow close Cash Drawer.	

Command	Cash Drawer
I 48C	Check status
► The I/O address 48Ch bit6 =1 mean the Cash Drawer is opened or not exist. ► The I/O address 48Ch bit6 =0 mean the Cash Drawer is closed.	

4. Specification

Model Name	TeosWide 10D2E, 10D2P	TeosWide 1007E, 1007P
Mainboard	**C56**	**C76**
CPU	Intel CedarView D2550 processor 1.86GHz 1MB Cache	Intel Ivy Bridge CPUCeleron 1037U 1.8G, LLC 2MB, 17W
Chipset	Intel NM10	CPU integrated graphic + Intel HM76 PCH, 4.1W
System Memory	1 x DDR3 SO-DIMM socket up to 4G, FSB 1066MHz	1 x DDR3 SO-DIMM up to 8GB, 1333/1600MHz
Graphic Memory	Intel GMA 3650 (Gfx frequency up to 640MHz), DX9	Intel HD Graphics 4000/2500, integrated in CPU, DX11
LCD/Touch Panel		
LCD Size	10.1" LED LCD	
Brightness	200 nits	
Maximal Resolution	1366 x 768	
Touch Screen Type	True flat resistive touch / True flat projected capacitive touch	
Storage		
HDD	1 x slim HDD bay (SATA)	
Flash Memory	SATA SSD Flash memory card 8G/16G/32G/64G (option)	
Peripherals		
Web Cam (Build-in)	2M Web Cam	
WiFi (Optional)	802.11 b/g/n WLAN card	
Expansion		
Mini PCI-E Socket	1	
External I/O Ports		
USB 2.0	4 x USB Type A (2 with special cables. only 3 USB if capacitive touch panel)	2 x USB 2.0 Type A 2 x USB 3.0/2.0 Type A 2 x USB 2.0 Type A with special cable (or 2nd LAN, see below)
Serial COM	4 x RJ45 COM ports (COM1 w/o power, COM2/COM3/COM4 powered COM with power enable / disable by BIOS setting, COM2 is 0V; COM3 is 0V/5V, COM4 is 0V/12V, default BIOS setting 0V)	3 x RJ45 COM ports (COM1/2/3 powered RS232; COM1 and COM2 default 5V, COM3 default 12Vby BIOS setting)
LAN (10/100/1000)	1 x RJ-45	
2nd LAN (10/100/1000)	NA	1 (Option, either one solution w/ 2x USB 2.0 Type A)
2nd VGA	1 (with optional special cable)	
Cash Drawer	1 x RJ-11 (12V or 19V)	
DC Jack	1 x 2pin CN	
Power Button	1	
Thermal Solution		
Thermal Solution	Fanless	

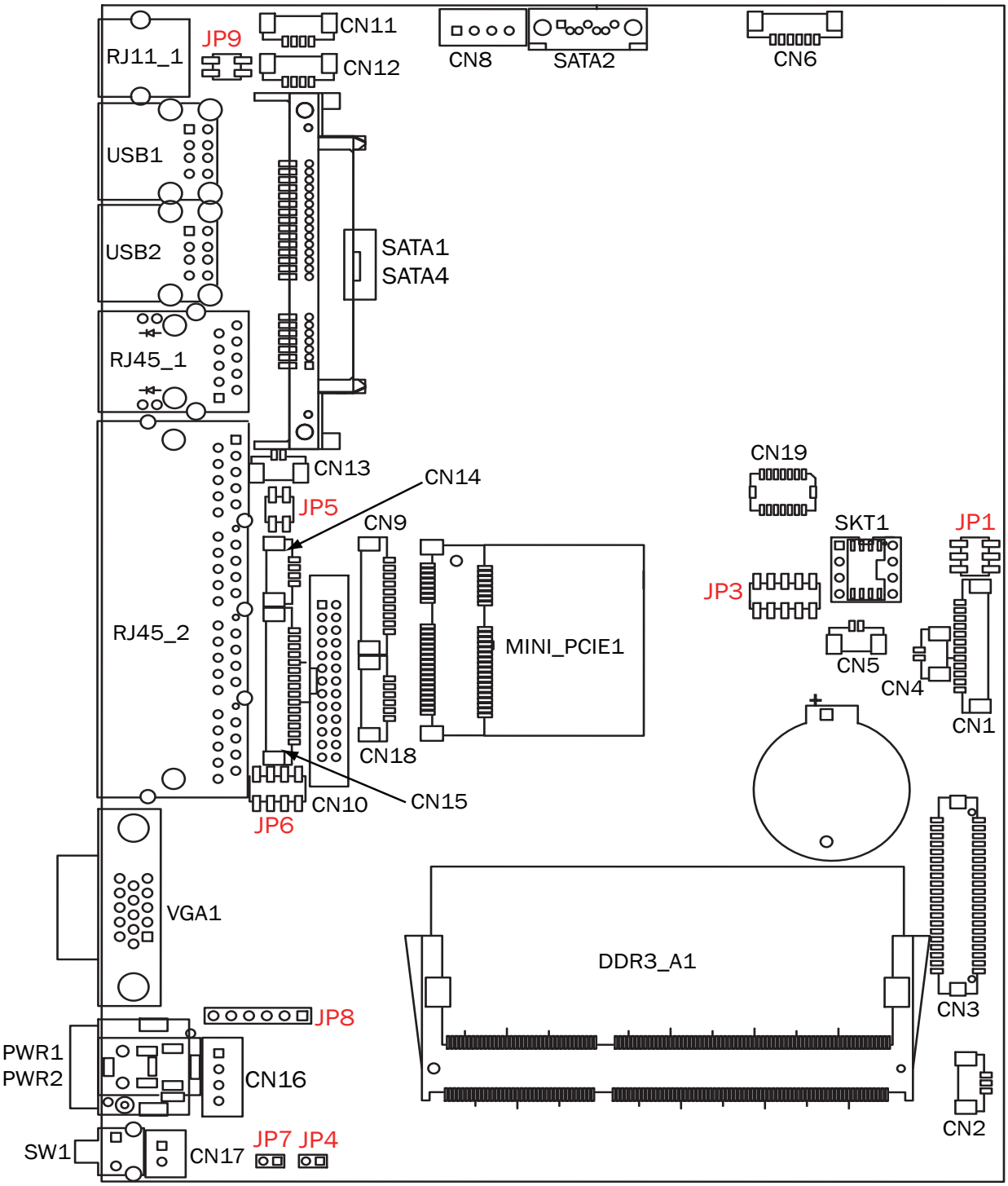
Model Name	**TeosWide 10D2E, 10D2P**	**TeosWide 1007E, 1007P**
Mainboard	**C56**	**C76**
Audio		
Speaker	2 x 2W	
Power		
Power Adapter	DC 18.5V / 65W	
Environment		
EMC & Safety	FCC /CE Class A/ LVD EN 60601-1-2/ UL	FCC /CE Class A/ LVD
Operating Temperature	0°C ~ 35°C (32°F ~ 95°F)	
Storage Temperature	-20°C ~ 60°C (-4°F ~ 140°F)	
Humidity	20% ~ 85% RH non condensing	
Dust & Water Proof	IP 54 (front panel)	
Dimensions (W x D x H)	263 x 170 x 38 mm	
Weight (N.W./G.W.)	1.5kg / 2.5kg	
Mounting	75mm x 75mm Standard VESA / Panel Mount	
OS Support	Windows® XP Professional, POSReady 2009, Windows XP Embedded, Windows XP Professional for Embedded, Windows 7 (32 bit for C56), Linux	Windows® XP Professional, POSReady 2009, Windows XP Embedded,Windows XP Professional for Embedded, Windows 7, Windows 8, Linux

* This specification is subject to change without prior notice.

5. Configuration

5-1. C56 Motherboard

5-1-1. Motherboard Layout



5-1-2. Connectors & Functions

Connector	Function
CN1	Inverter / LED backlight connector
CN3	LVDS Connector
CN4	Power LED Connector
CN5	SATA LED Connector
CN6	Speaker & MIC Connector
CN8	SATA Power Connector
CN9	COM5(Touch) Connector
CN10	Printer Port Connector
CN11/12	USB Port(Internal)
CN13	LAN LED Connector
CN14	PS2 Keyboard Connector
CN15	Card Reader Connector(COM6)
CN16	+19V DC IN Connector
CN17	Power button(Internal)
PWR2/3	+19V DC JACK
RJ11_1	Cash Drawer Connector
RJ45_1	LAN Connector
RJ45_2	COM1/ COM2/ COM3/ COM4
DDR3_A1	DDR3 SO-DIMM
SATA1/2/4	SATA Connector
SKT1	BIOS Connector
USB1	USB6 USB7
USB2	USB4 USB5
VGA1	VGA Connector
SW1	Power Button
JP1	Inverter Select
JP3	LCD ID Setting
JP5	COM2 Power Setting
JP6	COM3/COM4 Power Setting
JP8	Touch Connector
JP9	Cash Drawer Power Setting

5-1-3. Jumper Setting

Cash Drawer Power Setting

Function	JP9
▲ +19V	1 [3] 2 [4]
+12V	[1] 3 [2] 4

Inverter Selection

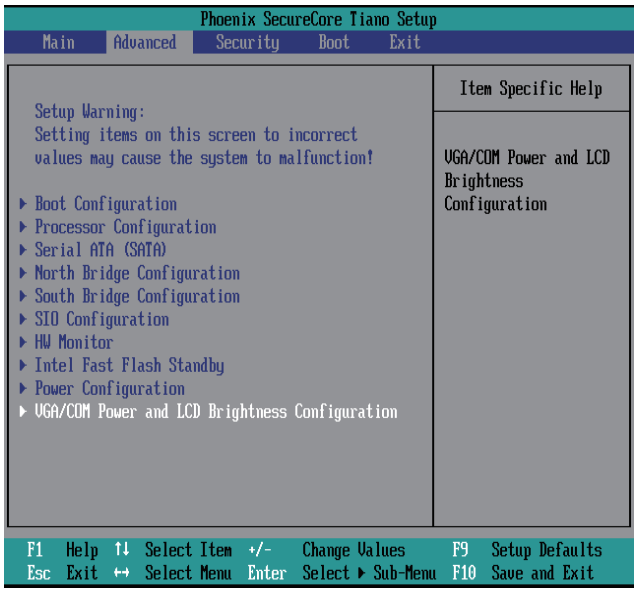
Function	JP1
CCFL	1 3 [5] 2 4 [6]
▲LED	1 [3] 5 2 [4] 6

COM2/COM3/COM4 Power Setting

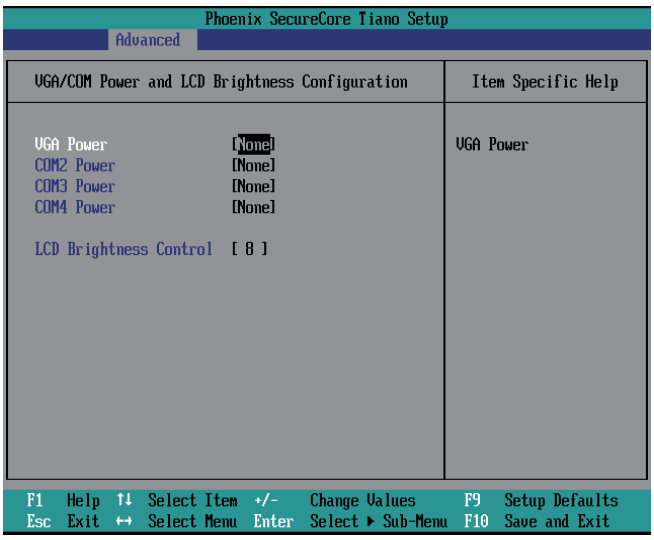
COM2, COM3 and COM4 can be set to provide power to your serial device.
The voltage can be set to +5V or +12V by setting jumper JP5 and JP6 on the mother-board. When enabled, the power is available on pin 10 of the RJ45 serial connector. If you use the serial RJ45 to DB9 adapter cable, the power is on pin 9 of the DB9 connector. By default, the power option is disabled in the BIOS.

Enable COM2/ COM3/COM4 power in BIOS

1. Power on the system, and press the <DEL> key when the system is booting up to enter the BIOS Setup utility.
2. Select the Advanced tab.
3. Select **VGA/COM Power and LCD Brightness Configuration** Ports and press <Enter> to go to display the available options.



4. To enable the power, select COM2 ,COM3 or COM4 Power setting and press <Enter>. Select Power and press <Enter>. Save the change by pressing F10.



COM2 Power Setting

Function	JP5
▲No Power	1 3 2 4
COM2 +5V	[1] 3 [2] 4
COM2 +12V	1 [3] 2 [4]

COM3/COM4 Jumper setup

Function		JP6
COM3	▲+5V	[1] 3 5 7 [2] 4 6 8
	+12V	1 [3] 5 7 2 [4] 6 8
COM4	+5V	1 3 [5] 7 2 4 [6] 8
	▲+12V	1 3 5 [7] 2 4 6 [8]

▲ = Manufacturer Default Setting

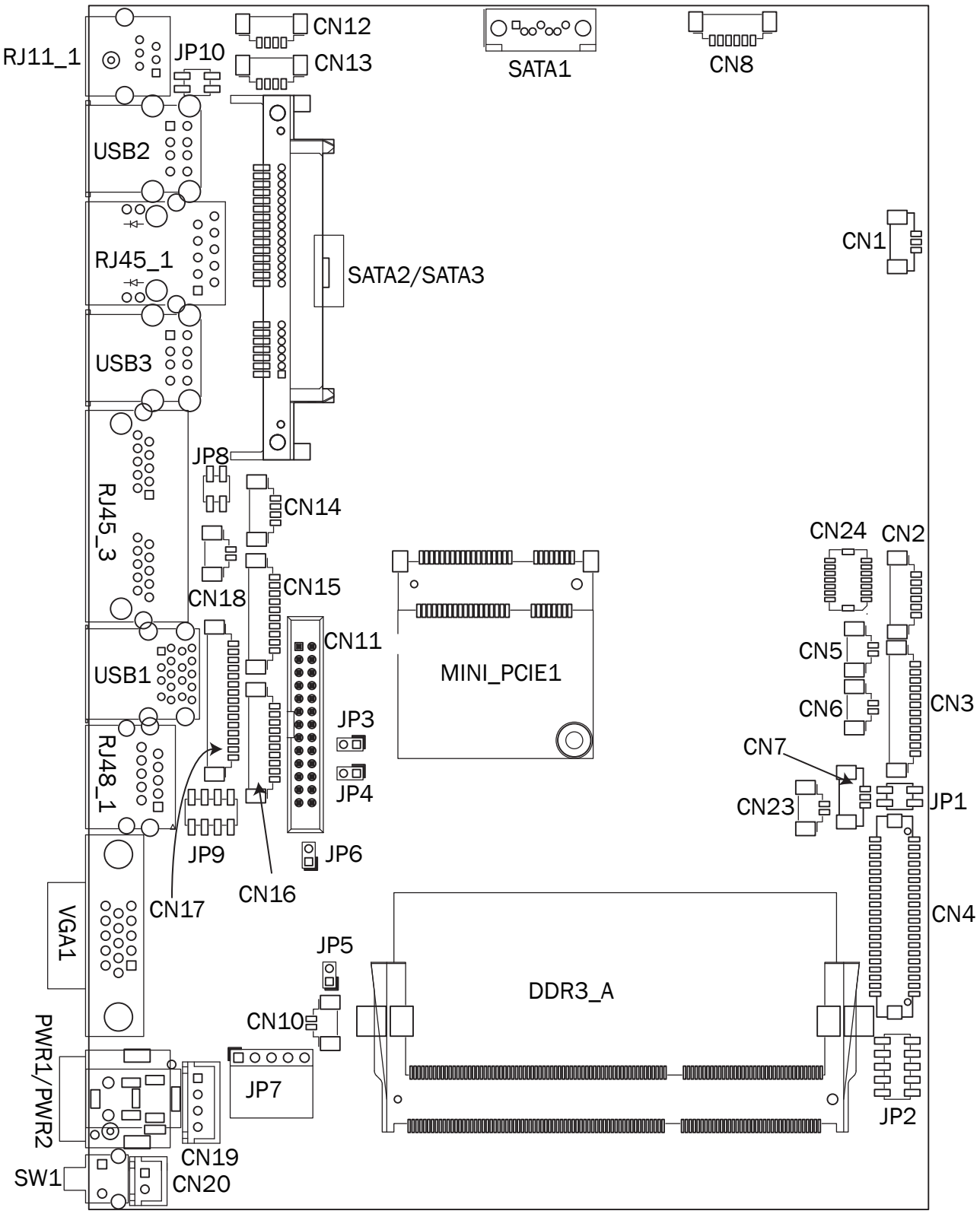
LCD ID Setting

Panel#	Resolution	LVDS		Output Interface	JP3
		Bits	Channel		
1	800 x 600	18	Single	LVDS Panel	1 [3 4] [5 6] [7 8] 9 / 2 10
2	800 x 600	18	Single	LVDS Panel	[1 2] 3 4 [5 6] [7 8] 9 10
3	800 x 600	24	Single	LVDS Panel	1 3 [5 6] [7 8] 9 / 2 4 10
4	1024 x 600	18	Single	LVDS Panel	[1 2] [3 4] 5 6 [7 8] 9 10
5	1024 x 768	18	Single	LVDS Panel	1 [3 4] 5 6 [7 8] 9 / 2 10
7	1024 x 768	24	Single	LVDS Panel	1 3 5 [7 8] 9 / 2 4 6 10
9	1280 x 1024	24	Dual	LVDS Panel	1 [3 4] [5 6] 7 9 / 2 8 10
10	1366 x 768	18	Single	LVDS Panel	[1 2] 3 4 [5 6] 7 9 / 8 10
11	1366 x 768	24	Single	LVDS Panel	1 3 [5 6] 7 9 / 2 4 8 10
13	1440 x 900	24	Dual	LVDS Panel	1 [3 4] 5 7 9 / 2 6 8 10
15	1920 x 1080	24	Dual	LVDS Panel	1 3 5 7 9 / 2 4 6 8 10
				CRT	1 3 5 7 [9 10] / 2 4 6 8

[1 2] Jumper open [1 2] Jumper short

5-2. C76 Motherboard

5-2-1. Motherboard Layout



5-2-2. Connectors & Functions

Connector	Function
CN3	Inverter Select
CN4	Inverter / LED backlight connector
CN5	Power LED Connector
CN6	HDD LED Connector
CN8	Speaker & MIC Connector
CN9	SATA Power Connector
CN10	CMOS battery connector
CN11	Printer Port Connector
CN12	USB (Internal)
CN13	USB (Internal)
CN14	PS/2 Keyboard Connector
CN15	COM4 Connector
CN16	COM5(Touch) Connector
CN17	MSR Connector
CN18	LAN LED Connector
CN19	DC Jack Connector
CN20	Power Button
RJ45_1	LAN Connector
RJ45_3	COM1/ COM2
RJ48_1	COM3
RJ11_1	Cash Drawer Connector
PWR2	DC Jack (4 pin)
SATA2	SATA1
SATA1	SATA2
SW1	Power button
USB1	USB3.0
USB2	USB2.0
USB3	USB2.0
VGA1	VGA Connector
DDR3_A1	DDR3 SO-DIMM
JP1	Inverter Select
JP2	LCD ID Setting
JP8	COM1 Power Setting
JP9	COM2/COM3 Power Setting
JP10	Cash Drawer Power Setting

5-2-3. Jumper Setting

Inverter Selection

Function	JP1
▲LED	
CCFL	

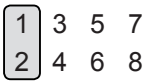
Cash Drawer Power Setting

Function	JP10
▲ +19V	
+12V	

COM1 Power Setting

Function	JP8
▲COM1 +5V	
COM1 +12V	

COM2/COM3 Power Setting

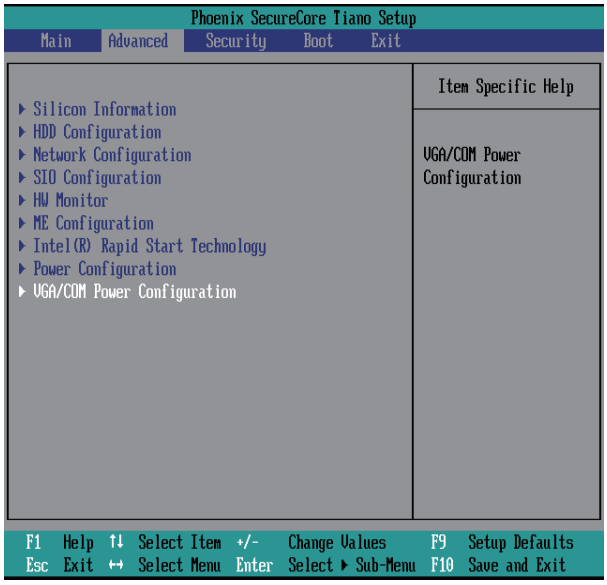
Function		JP9
COM2	▲+5V	
	+12V	
COM3	+5V	
	▲+12V	

▲ = Manufacturer Default Setting

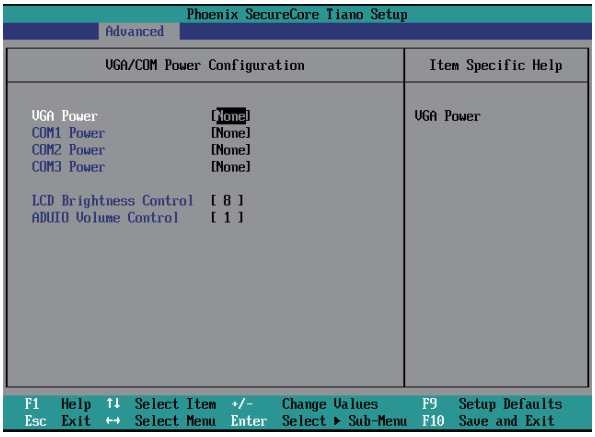
COM1/COM2/COM3 Power Setting

COM1, COM2 and COM3 can be set to provide power to your serial device. The voltage can be set to +5V or +12V by setting jumper JP8 and JP9 on the motherboard. When enabled, the power is available on pin 10 of the RJ45 serial connector. If you use the serial RJ45 to DB9 adapter cable, the power is on pin 9 of the DB9 connector. By default, the power option is disabled in the BIOS.

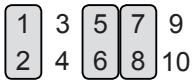
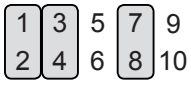
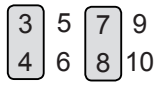
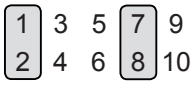
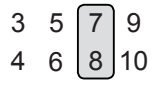
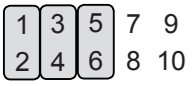
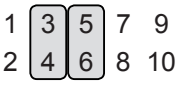
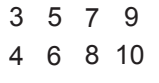
1. Power on the system, and press the <DEL> key when the system is booting up to enter the BIOS Setup utility.
2. Select the Advanced tab.
3. Select **VGA/COM Power and LCD Brightness Configuration** Ports and press <Enter> to go to display the available options.



4. To enable the power, select COM2 ,COM3 or COM4 Power setting and press <Enter>. Select Power and press <Enter>. Save the change by pressing F10.



LCD ID Setting

Panel#	Resolution	LVDS		Output Interface	JP2
		Bits	Channel		
1	800 x 600	18	Single	LVDS Panel	
2	800 x 600	24	Single	LVDS Panel	
3	1024 x 768	18	Single	LVDS Panel	
4	1024 x 768	24	Single	LVDS Panel	
5	1366 x 768	18	Single	LVDS Panel	
6	1366 x 768	24	Single	LVDS Panel	
7	1024 x 600	18	Single	LVDS Panel	
8	1280 x 1024	24	Dual	LVDS Panel	
9	1440 x 900	24	Dual	LVDS Panel	
15	1920 x 1080	24	Dual	LVDS Panel	
				CRT	

Jumper open Jumper short

Appendix: Drivers Installation

To downoad the most recent drivers and utilities, and obtain advice regarding the installation of your equipment, please visit the AURES Technical Support Website:

www.aures-support.fr (French)
www.aures-support.fr/UK (English)
www.aures-support.fr/GE (German)